



City of San Ramon
Building and Safety Services
2401 Crow Canyon Road, San Ramon, CA 94583
Office: (925) 973-2580 Fax (925) 838-2821
E-mail: Building@sanramon.ca.gov
Website: www.sanramon.ca.gov
Updated: December 2019

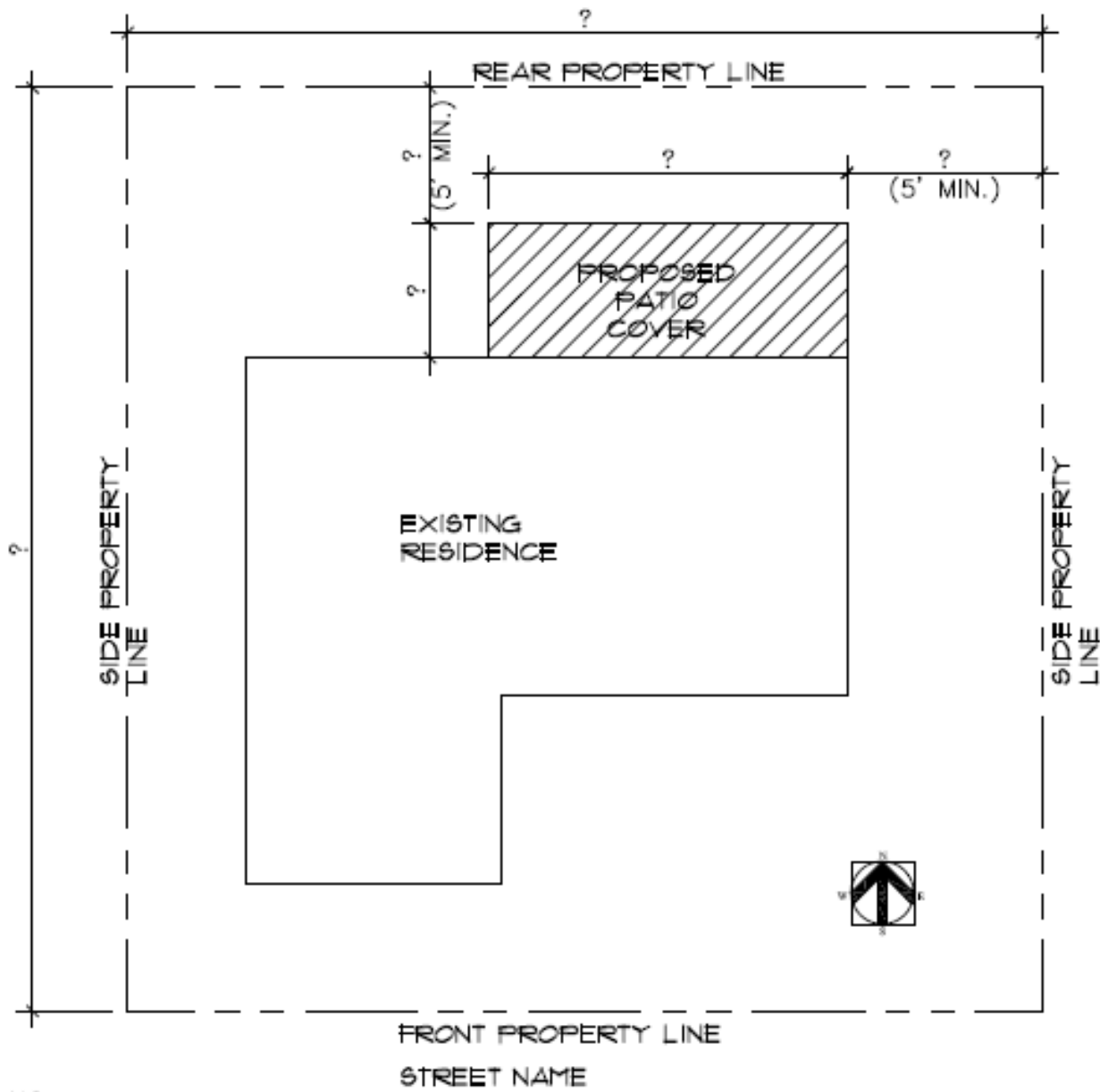
Patio Covers, Arbors, Gazebos, etc.

DOCUMENT SUBMITTAL REQUIREMENTS

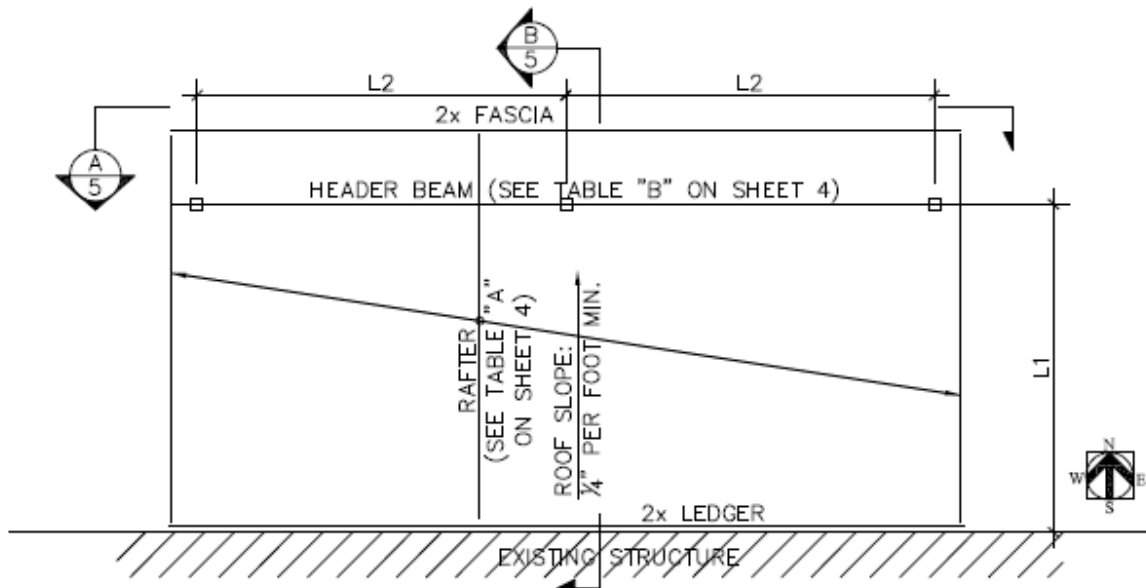
(Please provide three (3) complete sets of plans)

- ☐ **Cover Sheet Information:** Job site address; name; address and phone number of owner; name; address, phone number and stamp/signature of project designer/architect and or engineer; basic description of project.
- ☐ **Plot Plan:** Lot dimensions; total lot square footage; total square footage of existing accessory structures; dimensions which indicate the distances from all existing and proposed buildings to adjacent property lines and existing buildings; north arrow; identification of all streets and rights-of-way adjacent to the site; location of easements and visible utilities on site. (Min. Scale 1/8" = 1'-0")
- ☐ **Architectural Plans:** Exterior building elevations; floorplan identifying use and square footage of structure; building sections to include a section at the maximum building height and natural and finish grades; stairway, handrail and guardrail details; flashing details; roof covering specifications; exterior wall covering specifications, color, etc. (Min. Scale 1/4" = 1'-0")
- ☐ **Structural Plans:** Footing/foundation plan; size of materials to be utilized; floor framing plans; roof framing plan; structural frame details; structural material specifications, etc. (Min. Scale 1/4" = 1'-0")
- ☐ **Check with San Ramon Planning Division** (925-973-2560) for building setback requirements.
- ☐ **Check with the San Ramon Engineering Department** (925-973-2670) for location of any easements.
- ☐ **Electrical Plans:** If proposed, provide electrical plans which identify the size of the main service panel; show the location of all receptacles, switches, lighting fixtures and circuits assigned.
- ☐ **Calculations:** (2 sets) Structural calculations may be required. Note on plan the required design information per 2019 California Building Code, Section 1603.

SAMPLE PLOT PLAN:



SAMPLE FOUNDATION AND FRAMING PLANS:

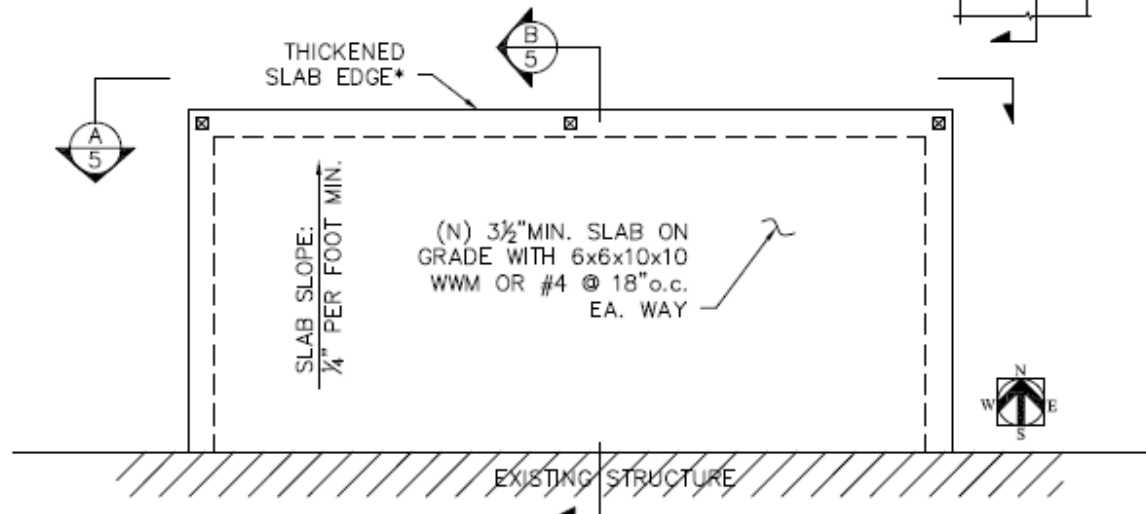


(B) ROOF FRAMING PLAN

SCALE: N.T.S.

*THICKENED SLAB EDGE OR ISOLATED FOOTING IS NOT REQUIRED WHEN THE COLUMN LOAD DOES NOT EXCEED 750 LB (i.e. ~38 SQ FT TRIB. AREA)

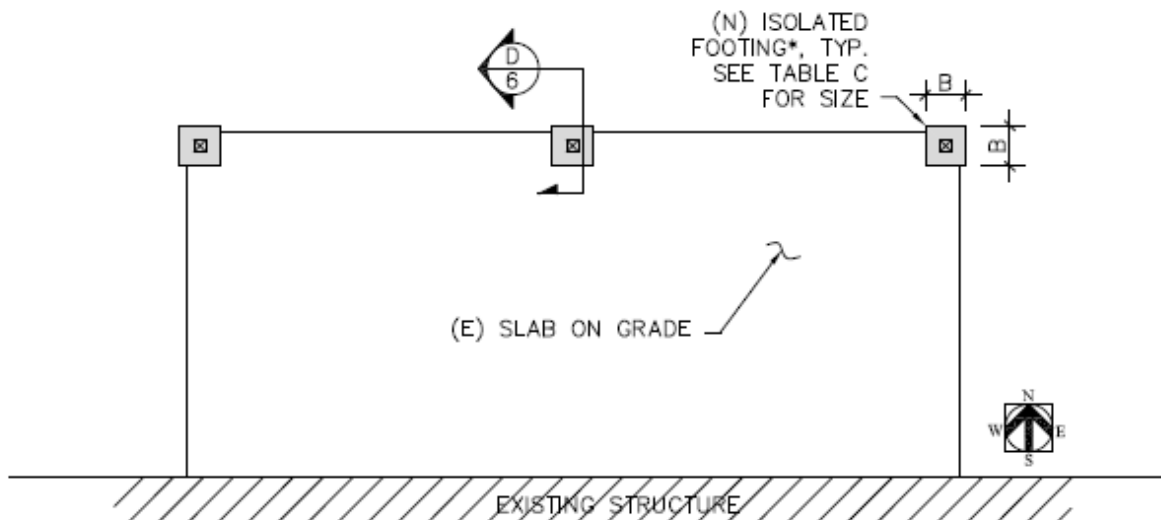
ISOLATED FOOTING* IS REQUIRED WHEN POST IS NOT LOCATED AT THE THICKENED SLAB EDGE



(A) FOUNDATION PLAN AT (N) PATIO SLAB

SCALE: N.T.S.

SAMPLE FOUNDATION PLAN AT (E) SLAB:

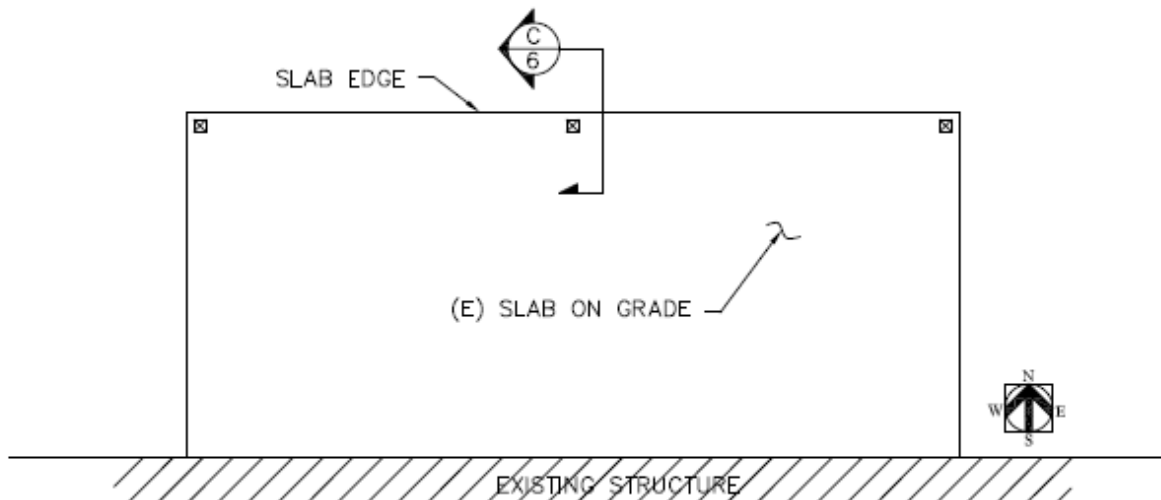


* (N) FOOTING REQUIRED WHEN ANY ONE OF THE CONDITIONS IN DET. A OCCUR

(B) FOUNDATION PLAN AT (E) PATIO SLAB CASE 2: (N) FOOTING REQUIRED SCALE: N.T.S.

CONDITIONS FOR USING (E) SLAB FOR COLUMN SUPPORT:

1. MIN. 3½" SLAB THK.
2. SLAB IN GOOD CONDITIONS
3. COLUMN LOAD DOES NOT EXCEED 750 LB (~38 SQ FT TRIB. AREA)



(A) FOUNDATION PLAN AT (E) PATIO SLAB CASE 1: NO FOOTING REQUIRED SCALE: N.T.S.

SAMPLE SPAN TABLE:

NOTES:

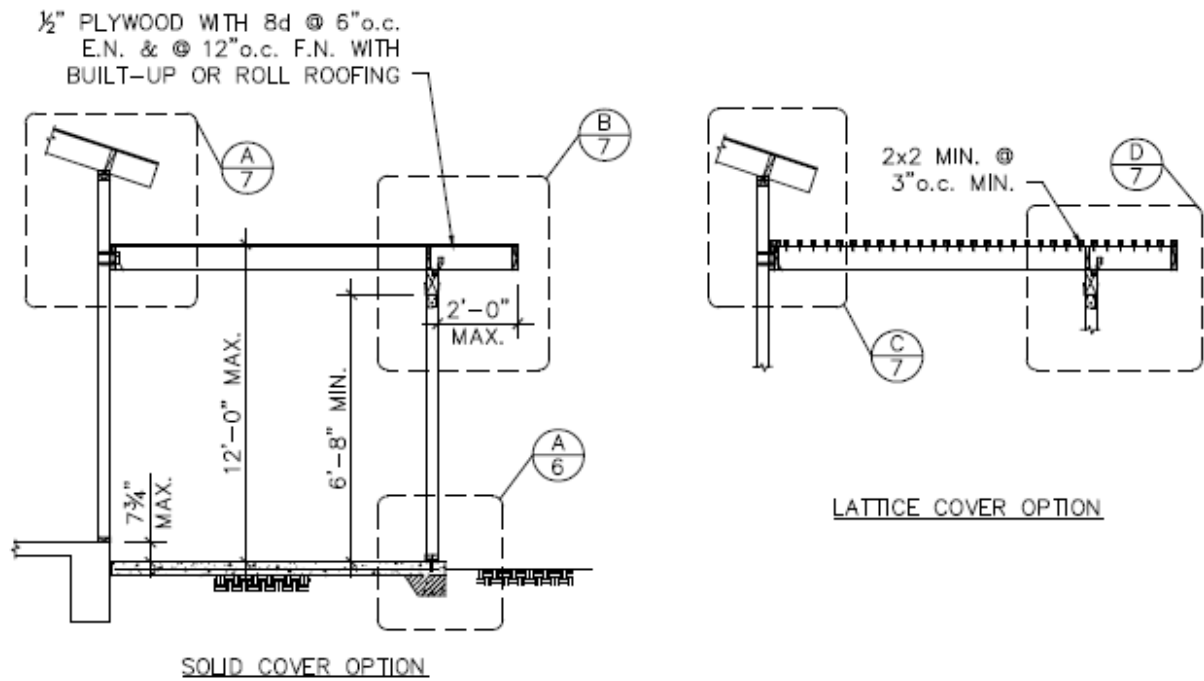
TABLE "A"		
RAFTER SPANS "L1" (DOUGLAS FIR LARCH #2 OR BETTER)		
SIZE	SPACING	SPAN
2x4	12" o.c.	10'-0"
	16" o.c.	8'-9"
	24" o.c.	7'-0"
	32" o.c.*	6'-3"*
2x6	12" o.c.	15'-9"
	16" o.c.	13'-9"
	24" o.c.	11'-3"
	32" o.c.*	9'-6"*
2x8	12" o.c.	20'-0"
	16" o.c.	18'-3"
	24" o.c.	14'-9"
	32" o.c.*	12'-9"*
2x10	12" o.c.	20'-0"
	16" o.c.	20'-0"
	24" o.c.	19'-0"
	32" o.c.*	16'-3"*
2-2x4 OR 4x4	24" o.c.	10'-0"
	32" o.c.*	8'-9"*
4x4	48" o.c.*	7'-0"*
2-2x6 OR 4x6	24" o.c.	15'-9"
	32" o.c.*	13'-9"*
4x6	48" o.c.*	11'-3"*
2-2x8 OR 4x8	24" o.c.	20'-0"
	32" o.c.*	18'-3"*
4x8	48" o.c.*	14'-9"*

* SPACING AND SPAN DENOTED BY ASTERISKS ARE FOR LATTICE TYPE PATIO COVER ONLY.

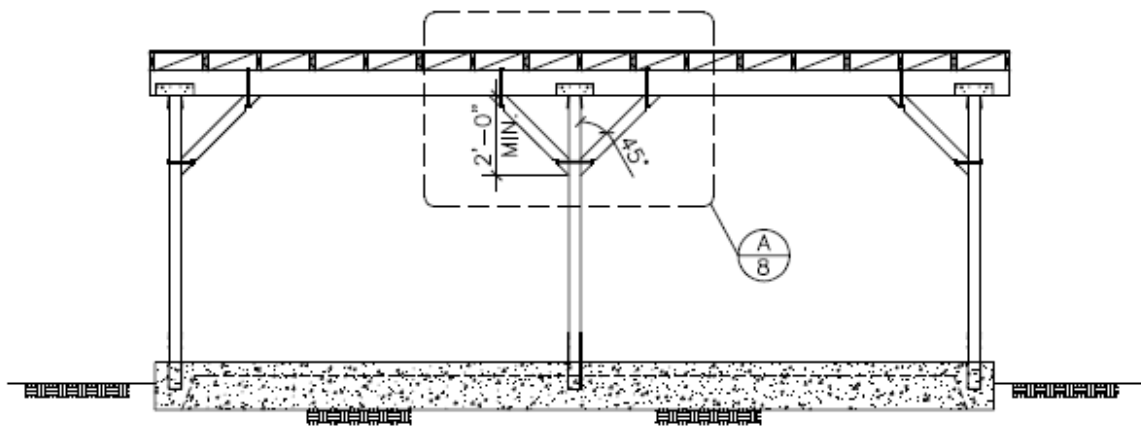
- LAG SCREWS MUST FULLY ENGAGE A WOOD STUD OR RIM JOIST AND BE PROVIDED WITH APPROPRIATE WASHERS.
- THESE TABLES ARE APPLICABLE TO OPEN PATIO COVER ONLY, NOT FOR ENCLOSED PATIO ENCLOSURE.
- PATIO COVER IN HILLSIDE AREAS SHALL BE DESIGNED BY CALIFORNIA LICENSED ARCHITECT OR ENGINEER FOR A 3-SECOND GUST MINIMUM NOMINAL DESIGN WIND SPEED (V_{asd}) OF 95 MPH AND EXPOSURE C
- ALL WEATHER EXPOSED WOOD MEMBERS SHALL BE NATURALLY DURABLE OR PRESSURE TREATED.
- ALL FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL.
- WOOD POSTS, RAFTERS AND BEAMS SHALL BE DOUGLAS FIR LARCH NO. 2 OR BETTER.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE 2500psi MIN. AND REINFORCEMENT YIELD STRENGTH SHALL BE 40ksi MIN.
- ALL METAL CONNECTORS AND HARDWARE SHALL MEET AN APPROVED STANDARD FOR ITS INTENDED USE AND BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- THIS GUIDELINE IS FOR MAX. COLUMN LOAD NOT TO EXCEED 750 POUNDS.
- THE INFORMATION PROVIDED IN THIS DESIGN GUIDE CARRIES NO IMPLIED OR INFERRED GUARANTEE AGAINST FAILURE OR DEFECTS. BY USING THIS DESIGN GUIDE, THE CONTRACTOR/OWNER ACCEPTS THE FULL RESPONSIBILITY OF RISK. ALTERNATE DESIGN MAY BE USED WHEN PROVIDED WITH WET STAMPED AND SIGNED STRUCTURAL CALCULATIONS & DETAILS BY A CALIFORNIA LICENSED ENGINEER OR ARCHITECT.

RAFTER SPAN	TABLE "B"		TABLE "C"	TABLE "D"	TABLE "E"
	HEADER SIZE & SPANS "L2" (DOUGLAS FIR LARCH #2 OR BETTER)		FOOTING SIZE	THRU' BOLTS	LEDGER LAG SCREW
	HEADER				
	SPAN	SIZE			
UP TO 12'-0"	9'-3"	2-2x6 OR 4X6	12"SQ. x 12"DP.	(2)- $\frac{1}{2}$ " ϕ @ 1 $\frac{1}{2}$ "o.c.	(1)- $\frac{1}{2}$ " ϕ x 6 $\frac{1}{2}$ " LONG @ 16"o.c. STAGG.
	12'-0"	2-2x8 OR 4X8	13"SQ. x 12"DP.	(2)- $\frac{5}{8}$ " ϕ @ 2 $\frac{1}{2}$ "o.c.	
	15'-6"	2-2x10 OR 4X10	14"SQ. x 12"DP.	(2)- $\frac{5}{8}$ " ϕ @ 3 $\frac{1}{2}$ "o.c.	
	18'-0"	2-2x12 OR 4X12	15"SQ. x 12"DP.	(2)- $\frac{3}{4}$ " ϕ @ 4 $\frac{1}{2}$ "o.c.	
12'-1" TO 20-0"	7'-0"	2-2x6 OR 4X6	14"SQ. x 12"DP.	(2)- $\frac{1}{2}$ " ϕ @ 1 $\frac{1}{2}$ "o.c.	(2)- $\frac{3}{8}$ " ϕ x 4 $\frac{1}{2}$ " LONG @ 16"o.c.
	9'-3"	2-2x8 OR 4X8	15"SQ. x 12"DP.	(2)- $\frac{5}{8}$ " ϕ @ 2 $\frac{1}{2}$ "o.c.	
	12'-0"	2-2x10 OR 4X10	16"SQ. x 12"DP.	(3)- $\frac{1}{2}$ " ϕ @ 2 $\frac{1}{2}$ "o.c.	
	14'-6"	2-2x12 OR 4X12	18"SQ. x 12"DP.	(3)- $\frac{3}{8}$ " ϕ @ 3"o.c.	

SAMPLE SECTIONS AND ELEVATION:

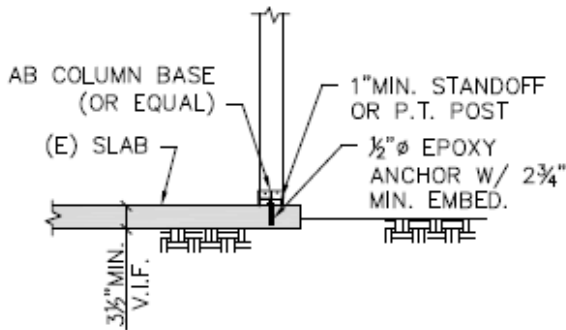


B PATIO COVER SECTION
SCALE 1/4"=1'-0"

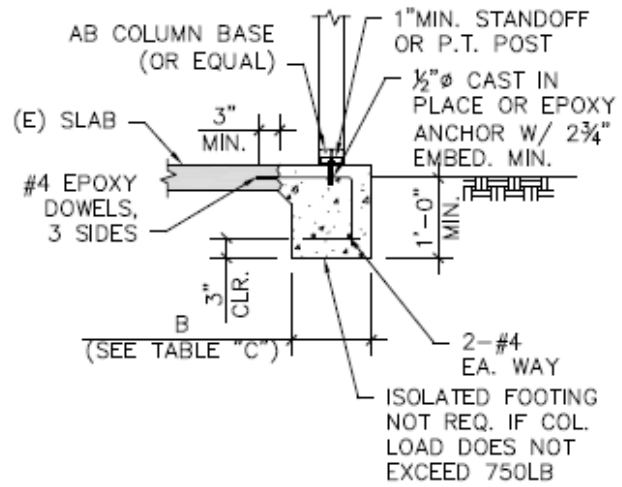


A PATIO COVER ELEVATION
SCALE 1/4"=1'-0"

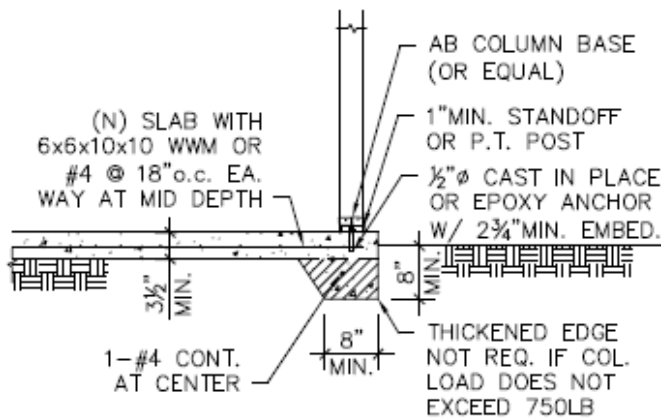
SAMPLE DETAILS:



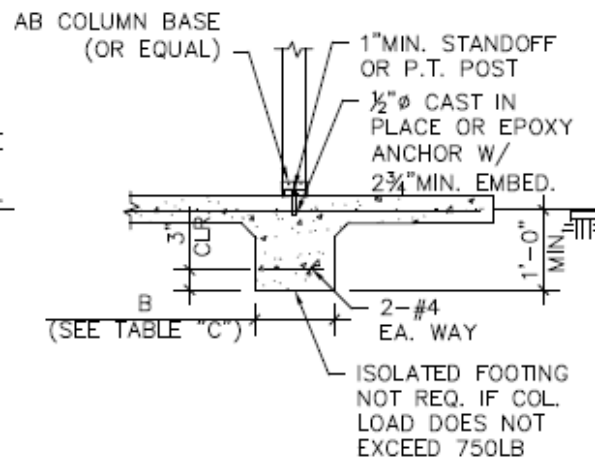
C (N) POST TO (E) SLAB DETAIL
SCALE: 1/2" = 1'-0"



D (N) ISOLATED FOOTING AT (E) SLAB DETAIL
SCALE: 1/2" = 1'-0"

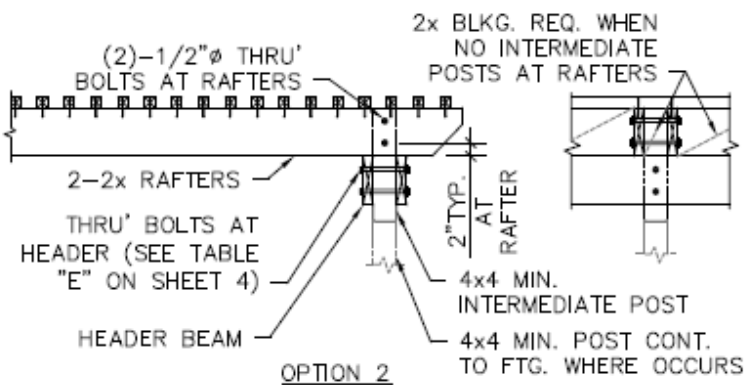
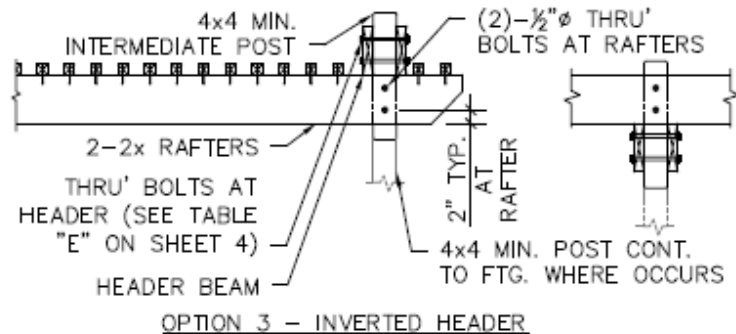
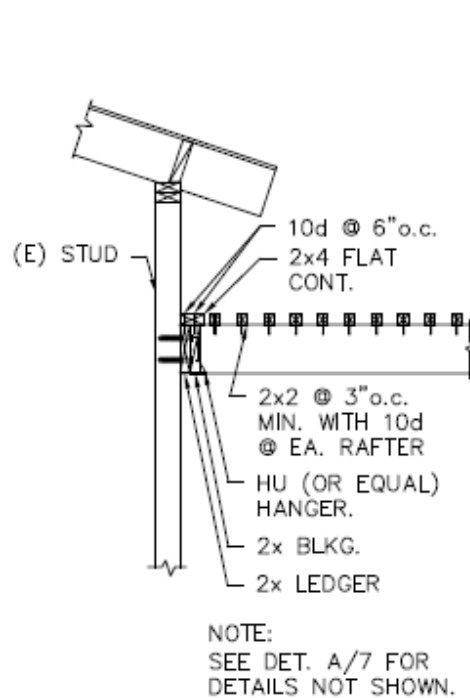


A (N) PATIO SLAB THICKENED EDGE DETAIL
SCALE: 1/2" = 1'-0"

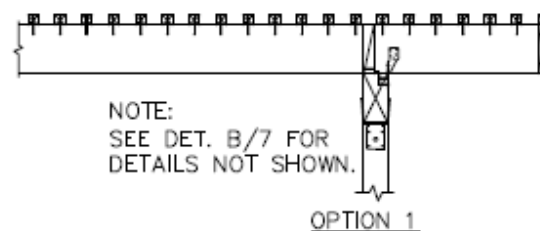


B (N) ISOLATED FOOTING IN (N) PATIO SLAB
SCALE: 1/2" = 1'-0"

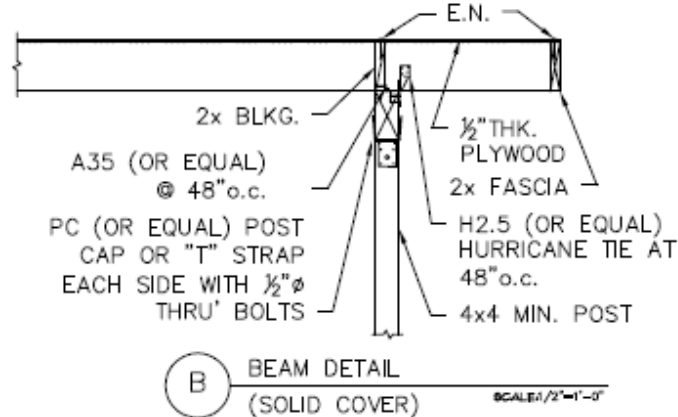
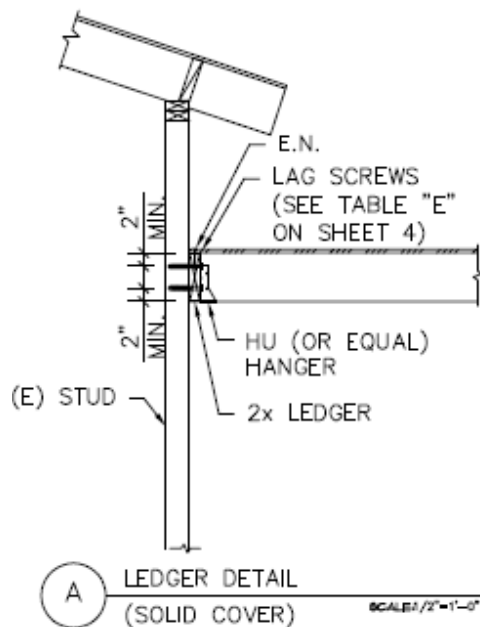
SAMPLE DETAILS CONTINUED:



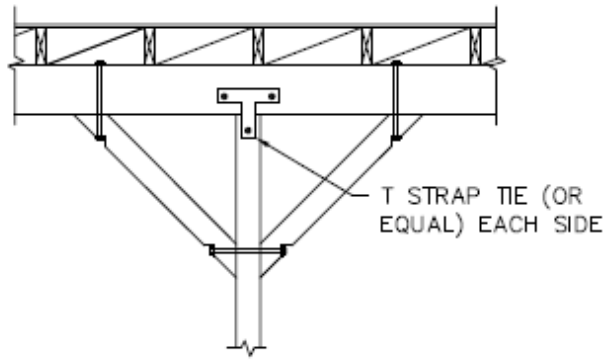
(C) LEDGER DETAIL
(LATTICE COVER) SCALE 1/2"=1'-0"



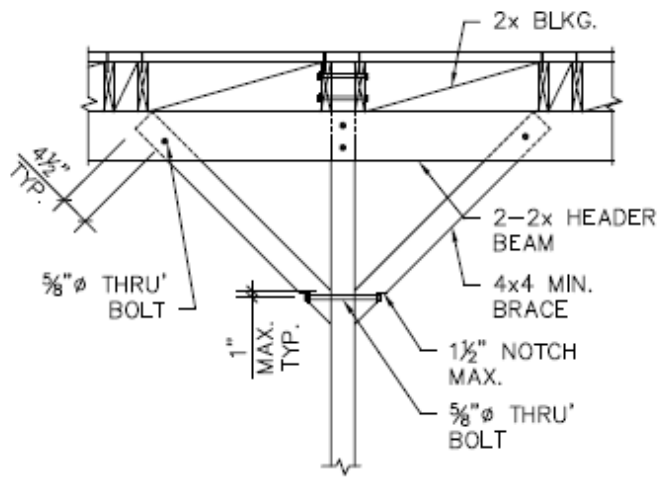
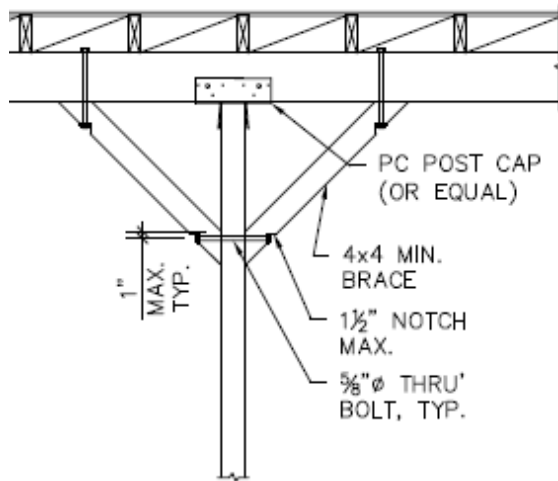
(D) BEAM DETAIL
(LATTICE COVER) SCALE 1/2"=1'-0"



SAMPLE DETAILS CONTINUED:



T STRAP TIE OPTION



ALTERNATIVE OPTION

A — BRACE DETAIL

SCALE: 1/2"=1'-0"